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Approved For Release 2003/12/19 : CIA-RDP78T04759A009600010018-3

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7 July 1970

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MEMORANDUM FOR: [REDACTED] NSA/PO4/SPO

SUBJECT : Antenna Orientations at Selected Soviet TWIN DISH Locations

REFERENCES : NSA/PO4/R-132-70
(NPIC Project 250737)

1. In response to the referenced requirement, this memorandum presents available photographic information on TWIN DISH, FORK REST, and HF antenna orientations, and associated equipment at selected Soviet TWIN DISH troposcatter facilities. In addition, a search was made to determine if any direct interconnecting roads, trails, powerlines, or ground scars existed between these facilities and SA-5 SAM complexes in close proximity. All large-scale photography of the facilities through [REDACTED] utilized. All azimuths are accurate to within [REDACTED] with a 95 percent confidence level.

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2. The selected TWIN DISH troposcatter facilities included in this memorandum are:

a. Liepaja TWIN DISH Troposcatter Facility
56-32-17N 021-0028E, [REDACTED]

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One pair of TWIN DISH antennas at the Liepaja facility is oriented on a propagation azimuth of [REDACTED] and the other pair on an azimuth of [REDACTED]. Four FORK REST antennas were identified at this facility, but their orientations could not be determined. No physical connections were seen between the troposcatter facility and the Liepaja SAM Complex A07-5 [REDACTED]

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b. Tukums Troposcatter Station (Riga TWIN DISH Troposcatter Facility)
56-57-00N 024-06-00E, [REDACTED]

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GROUP 1: EXCLUDED FROM
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This facility, also known as the Riga TWIN DISH Troposcatter Facility, had two pairs of TWIN DISH antennas. One pair is oriented on a propagation azimuth of [] and the other on an azimuth of []. An earth-covered control building was also present. No other antenna types have been identified. There were no identifiable physical connections between the troposcatter facility and the Riga SAM Complex A20-5 []

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c. Minsk TWIN DISH Troposcatter Facility
53-57-40N 027-32-00E, BE None, []

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The single pair of TWIN DISH antennas at the facility is oriented on a propagation azimuth of []. The site (Attachment 1) also contained 14 HF horizontal dipole antennas, a control building, 18 support buildings, and five truck-mounted vans. No physical connections were seen between this facility and the Minsk SAM Complex C22-5 []

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d. Siaulia TWIN DISH Troposcatter Facility
55-56-10N 023-18-55E; []

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No TWIN DISH troposcatter antennas have ever been identified on photographic coverage of this target. Interpretability precluded identification of antennas on the most recent coverages of []. There are no SA-5 SAM complexes in the immediate vicinity of this target.

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3. A complete photographic analysis of these facilities is being prepared for a future NPIC report. Any further inquiries should be directed to Mr. [] NPIC/IEG/SD/EB, IDS Code 143, []

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Chief, Imagery Exploitation Group
NPIC

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Attachment: 1 photo

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